



### *Mr. Vance A. Deason*

*Extensive experience and discovery in the areas of sensors, optical and ultrasonic imaging.*

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**Education:** Vance Deason received his B.S. in physics at the University of Colorado in Boulder.

**Work experience:** After receiving his degree, Mr. Deason worked at the National Bureau of Standards in Boulder, Colo., where he worked on sensor development for both cryogenic and plasma physics research projects. During this period, he took a break for a Peace Corps assignment in Borneo, where he taught Science and spoken English at the junior high through sophomore college level, and traveled extensively.

#### **Licensing information**

For information on licensing INL technologies such as those developed by Mr. Deason, contact the Lead Account Executive for Industrial Processing and Manufacturing:

**Jason Stolworthy**

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He has been at the INL since 1977, where he has worked on numerous sensor and optical imaging problems. He is presently a Consulting Scientist in the Physics Department.

**Professional endeavors:** Currently, he is developing applications for the ultrasonic imaging technology he helped invent. He is also interested in collaborative projects with members of other disciplines, both at the INL and elsewhere. His interests include holography, interferometry, imaging, microfabrication, and the development of sensors, tools and diagnostic methods for scientific and industrial applications.

#### **Patents:**

- ▶ U.S. Patent No. 4,850,693 – Compact, Portable Diffraction Moiré Interferometer
- ▶ U.S. Patent No. 4,995,260 – Non-destructive Material Characterization
- ▶ U.S. Patent No. 5,003,600 – Diffraction Gratings Used as Identifying Markers
- ▶ U.S. Patent No. 5,016,951 – Fiber Optic Diffraction Grating Maker
- ▶ U.S. Patent No. 5,026,154 – Multipulsed Dynamic Moiré Interferometer
- ▶ U.S. Patent No. 5,048,969 – Piezoelectric Measurement of Laser Power
- ▶ U.S. Patent No. 5,231,468 – Beam Shuttering Interferometer and Method
- ▶ U.S. Patent No. 5,349,442 – Hand Held Phase –Shifting Diffraction Moiré Interferometer
- ▶ U.S. Patent No. 5,822,074 – Retroreflective System for Remote Readout
- ▶ U.S. Patent No. 6,134,006 – Imaging Photorefractive Optical Vibration Measurement Method and Device
- ▶ U.S. Patent No. 6,175,411 – Apparatus and Method for Measuring and Imaging Traveling Waves
- ▶ U.S. Patent No. 6,401,540 – Method and Apparatus for Detecting Internal Structures of Bulk Objects Using Acoustic Imaging
- ▶ U.S. Patent No. 6,486,902 – Method and Apparatus for Assessing Material Properties of Sheet-Like Materials
- ▶ U.S. Patent No. 6,836,336 – Inspection Systems Calibration Methods
- ▶ U.S. Patent No. 6,847,584 – Method and Apparatus for Acoustic Imaging of Objects in Water